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Exhibit R-2, RDT&E Budget Item Justification: PB 2013 Air Force									DATE: February 2012		
APPROPRIATION/BUDGET ACTIVITY 3600: Research, Development, Test & Evaluation, Air Force BA 6: RDT&E Management Support				R-1 ITEM NOMENCLATURE PE 0606323F: Multi-Service Systems Engineering							
COST (\$ in Millions)	FY 2011	FY 2012	FY 2013 Base	FY 2013 OCO	FY 2013 Total	FY 2014	FY 2015	FY 2016	FY 2017	Cost To Complete	Total Cost
Total Program Element	18.258	13.953	13.964	-	13.964	13.935	-	-	-	Continuing	Continuing
668101: MSSE and JIAMD Capability Initiative	18.258	13.953	13.964	-	13.964	13.935	-	-	-	Continuing	Continuing
Quantity of RDT&E Articles	0	0	0	0	0	0	0	0	0		

A. Mission Description and Budget Item Justification

The Multi-Service System Engineering Team (MSSET) serves as a joint acquisition effort to build the framework for future work towards achieving near-term Joint Track Management Capability (JTMC) and long-term Joint Integrated Air and Missile Defense (JIAMD) capabilities.

The MSSET will perform systems engineering activities in collaboration with the Missile Defense Agency (MDA), Services, Joint Staff, and OSD. The MSSET will review Service Program of Record (PoRs) and MDA systems based upon operationally validated JIAMD requirements and Prioritized Capabilities List (PCL) needs. It will then recommend engineering changes (e.g., Interface Control Documents (ICDs), common standards, and/or specifications) that can provide incremental improvements in Joint war fighting capability, as described in the Joint Requirements Oversight Council (JROC)-validated Joint IAMD operational requirements, information exchange requirements, as well as other war fighter-approved requirements. The MSSET scope will encompass the collaborative efforts to provide the war fighter the ability to effectively and efficiently utilize all available resources to counter the complete air, cruise missile, and ballistic missile threats. Activities also include studies and analysis to support both current program planning and execution, as well as future program planning.

The objective of the MSSET is to recommend incremental improvements in fielded capabilities within the construct of Service and MDA PoRs. The following list includes several, priority Family of Systems (FOS) engineering tasks. These tasks go beyond the expected scope of engineering efforts conducted by an individual Service and MDA in their POR for IAMD:

- Conduct the engineering activity to develop coordinated Joint IAMD Department of Defense (DoD) Architecture Framework (DODAF) products (e.g., System Views) while maintaining and deriving common standards.
- Develop, recommend, and document as necessary overarching JIAMD technical/performance requirements.
- Perform Joint IAMD FOS engineering and related analyses, and develop recommendations for incrementally implementing Joint IAMD capabilities.
- Develop Joint IAMD FOS engineering and Capability Validation Plans and strategies.
- Recommend updates to the Joint Staff IAMD Operational Views as necessary.
- Ensure that Joint engineering tasks are conducted in a logical sequence and in a timely manner to provide the Services and MDA the most benefit and adequate time to consider engineering recommendations derived by the MSSET.
- JPEO act in the role of Secretariat for the AMD Integration Standing-Committee to Missile Defense Executive Board (MDEB).

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This program is in Budget Activity 6, RDT&E Management Support, because this budget activity includes research, development, test and evaluation efforts and funds to sustain and/or modernize the installations or operations required for general research, development, test and evaluation.						
B. Program Change Summary (\$ in Millions)		FY 2011	FY 2012	FY 2013 Base	FY 2013 OCO	FY 2013 Total
Previous President's Budget		18.901	13.953	13.938	-	13.938
Current President's Budget		18.258	13.953	13.964	-	13.964
Total Adjustments		-0.643	-	0.026	-	0.026
• Congressional General Reductions		-	-			
• Congressional Directed Reductions		-	-			
• Congressional Rescissions		-	-			
• Congressional Adds		-	-			
• Congressional Directed Transfers		-	-			
• Reprogrammings		-	-			
• SBIR/STTR Transfer		-0.547	-			
• Other Adjustments		-0.096	-	0.026	-	0.026
Change Summary Explanation						
FY11: Other Adjustments includes -\$0.096 Congressional General Reductions						
C. Accomplishments/Planned Programs (\$ in Millions)				FY 2011	FY 2012	FY 2013
Title: JTMC System Engineering				1.200	-	-
Description: Engineering Activity (Multi-Service Systems Engineering)						
FY 2011 Accomplishments: Finalized system architecture for JTMC demo, process engineering change documents with programs of record, acquire final Tactical Component Network licensing.						
FY 2012 Plans: N/A						
FY 2013 Plans: N/A						
Title: JTMC Demo				9.500	-	-
Description: Joint Track Manager Capability Demonstration						
FY 2011 Accomplishments:						

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C. Accomplishments/Planned Programs (\$ in Millions)		FY 2011	FY 2012	FY 2013
Conducted bridge demonstration between Navy's Cooperative Engagement Capability (CEC) and Army Integrated Air Missile Defense Integrated Fire Control Network (AIAMD IFCN) programs of record and develop test plans in support of demonstration. FY 2012 Plans: N/A FY 2013 Plans: N/A				
Title: Joint Operational Requirements Description: Joint Operational Requirements FY 2011 Accomplishments: Supported JROC-approved SIAP/JTM Capability Development Document (CDD) requirements to JIAMD community. FY 2012 Plans: N/A FY 2013 Plans: N/A		1.801	-	-
Title: Tactical Control Network (TCN) Description: TCN License Payment FY 2011 Accomplishments: Completed final payment on TCN software license. FY 2012 Plans: N/A FY 2013 Plans: N/A		5.757	-	-
Title: Requirements Development Description: MSSE Requirements Development FY 2011 Accomplishments:		-	1.000	1.000

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C. Accomplishments/Planned Programs (\$ in Millions)		FY 2011	FY 2012	FY 2013
N/A				
FY 2012 Plans: Develop, recommend, and document as necessary overarching JIAMD technical/performance requirements.				
FY 2013 Plans: Will develop, recommend, and document as necessary overarching JIAMD technical/performance requirements.				
Title: Architecture Development Description: MSSE Architecture Development FY 2011 Accomplishments: N/A FY 2012 Plans: Conduct the engineering activity to develop coordinated Joint IAMD architecture products (e.g., System Views) while maintaining and deriving common standards. Recommend updates to the Joint Staff IAMD Operational Views as necessary. FY 2013 Plans: Will conduct the engineering activity to develop coordinated Joint IAMD architecture products (e.g., System Views) while maintaining and deriving common standards. Recommend updates to the Joint Staff IAMD Operational Views as necessary.		-	5.000	5.164
Title: Engineering Description: MSSE Systems Engineering FY 2011 Accomplishments: N/A FY 2012 Plans: Perform Joint IAMD FOS engineering and related analyses, and develop recommendations for incrementally implementing Joint IAMD capabilities. Develop Joint IAMD FOS engineering and Capability Validation Plans and strategies. FY 2013 Plans: Will perform Joint IAMD FOS engineering and related analyses, and develop recommendations for incrementally implementing Joint IAMD capabilities. Will develop Joint IAMD FOS engineering and Capability Validation Plans and strategies.		-	7.953	7.800
Accomplishments/Planned Programs Subtotals		18.258	13.953	13.964

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D. Other Program Funding Summary (\$ in Millions)

<u>Line Item</u>	<u>FY 2011</u>	<u>FY 2012</u>	<u>FY 2013</u> <u>Base</u>	<u>FY 2013</u> <u>OCO</u>	<u>FY 2013</u> <u>Total</u>	<u>FY 2014</u>	<u>FY 2015</u>	<u>FY 2016</u>	<u>FY 2017</u>	<u>Cost To</u> <u>Complete</u>	<u>Total Cost</u>
• N/A: N/A	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	Continuing	Continuing

E. Acquisition Strategy

The Multi-Service System Engineering will fund service PoRs by Military Interdepartmental Purchase Request that achieve incremental capability enhancements in accordance with the JIAMD Joint Enterprise Architecture Plan (JEAP). This is accomplished in a collaborative fashion with the Services, MDA, the JPEO IAMD, Joint Staff, and Office of Secretary of Defense. All contracts are awarded full and open.

F. Performance Metrics

Please refer to the Performance Base Budget Overview Book for information on how Air Force resources are applied and how those resources are contributing to Air Force performance goals and most importantly, how they contribute to our mission.